SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: Tui Quash Slug & Snail Control.

Recommended Use: Slug & Snail bait for the control of slugs and snails in the home garden.

Company: Tui Products Ltd.
Address: Mount Maunganui,
New Zealand
Telephone Number: +64 7 5752160

Emergency Telephone Numbers: 0800 CHEMCALL (0800 243 622) 24 hours
0800 POISON (0800 764 766) National Poisons Centre
111 – New Zealand Fire Service

Date of Preparation: September 2014

2. HAZARDS IDENTIFICATION:

HSNO Hazard Classifications: 9.1D.

Hazard Statements: Toxic to aquatic life.

Prevention Statements: Read label before use.
Read Safety Data Sheet before use.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMPONENT	CONCENTRATION	CAS NUMBER
Iron EDTA Complex	60 g/kg	157089-41-5
Other non-hazardous ingredients.	Remainder to 100%.	

4. FIRST AID MEASURES:

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician.

Inhalation:	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.
Ingestion:	If swallowed, do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Eye Contact:	If in eyes, hold eyelids apart and flush eyes continuously with clean, low pressure flowing water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, occasionally lifting upper and lower eyelids until all contaminants are washed out completely. If eye irritation persists or symptoms develop seek medical advice/attention.
Skin Contact:	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Notes to Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media:	If material is involved in a fire use: carbon dioxide, dry chemical, foam, water mist or water spray.
Precautions for fire fighters and special protective clothing:	Fire fighters to wear self-contained breathing apparatus operated in positive pressure mode and full protective clothing to prevent exposure to vapours and fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from a safe location. This product should be prevented from entering drains and watercourses. Contain contaminated extinguishing water.
Hazards from combustion products:	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:	Evacuate the area and keep unnecessary and unprotected personal from entering the area. Remove all sources of ignition. Increase ventilation. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure.
Personal Precautions and Protective Equipment:	Refer to SDS section 7 for handling and precautionary measures. Refer to SDS section 8 for additional information and personal protection equipment.
Environmental Precautions:	Contain – prevent from entering sewers, waterways and/or groundwater.
Methods and Materials for Containment and Clean up:	Sweep up spilled material avoiding dust generation – dampen spilled material with water if suitable to avoid airborne dust, or where possible use dustless methods such as a vacuum to collect the material and then transfer to a suitable vapour tight properly labelled, sealed container for storage and safe disposal. Deal with spillages immediately. If contamination of sewers or waterways has occurred advise local emergency services.

7. HANDLING & STORAGE:

Precautions for safe handling and storage:

Handling: Keep out of reach of children.
Only use in a well-ventilated area. Prevent the build-up of dust in the work atmosphere.
Avoid inhalation of dust and skin or eye contact.
Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.
Wash hands, arms and face after handling. After work, remove any protective clothing.
DO NOT consume food, drink or tobacco in the areas where they may become contaminated with this material.
Clean up spilled material and wash clothing, equipment and work area after use.

Storage: Store in a tightly closed original container in a cool, dry, well-ventilated area, away from heat and sources of ignition, out of direct sunlight and away from moisture.
Store away from children, animals, food, feedstuffs and drink containers.
Take precautions against static electricity discharges. Use proper grounding procedures.
Store away from incompatible materials that support combustion (oxidising materials).
Keep containers closed and sealed when not in use and check regularly for deficiencies such as damage or leaks.
Have appropriate fire extinguishers available in and near the storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Occupational Exposure Limits: No value assigned for this specific material by EPA or NZ Dept. of Labour Health & Safety. However, Workplace Exposure Standard(s) for particulates not otherwise classified:
Inhalable dust: WES-TWA 10 mg/m^3
Respirable dust: WES-TWA 3 mg/m^3

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below exposure standards. Keep containers closed when not in use.
The use of a local exhaust ventilation system (drawing dusts away from workers breathing zone) is recommended. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Personal Protective Equipment:

Respiratory Protection:
Use with adequate ventilation, atmospheric levels should be maintained below the exposure guidelines. Avoid breathing dust.
If the engineering controls are not effective in controlling airborne exposure then an approved respirator with a replacement particulate filter should be used. Reference should be made to standards AS/NZS 1715, selection, use and maintenance of respiratory protective devices and AS/NZS 1716 respiratory protective devices, in order to make any necessary changes for individual circumstances.

Skin protection:
When handling the product wear cotton overalls buttoned to the neck and wrist and impervious gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1, occupational protective gloves, selection, use and maintenance.

Eye protection:
Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to standards AS/NZS 1337, eye protectors for industrial applications.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Rust coloured pellets.
Odour:	Odourless
pH:	6.8.
Solubility in water:	Insoluble but disintegrates over time.
Melting Point (°C):	>80°C
Decomposition Temperature (°C):	>150°C.
Flammability:	Non-flammable.
Upper Explosive Limit:	Not applicable.
Lower Explosive Limit:	Not applicable.
Flash point (°C):	Not available.
Vapour Pressure (20°C):	Not applicable.
Vapour Density:	Not available.
Evaporation Rate:	Not available.
Odour Threshold:	Not available.
Viscosity:	Not available.
Partition Coefficient:	Not available.
Density:	Not available.
Boiling Point (°C):	Not available.
Auto-ignition temperature (°C):	Not available.

10. STABILITY and REACTIVITY:

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to avoid:	Heat, flames and other sources of ignition. Extremes of temperature and direct sunlight. Keep away from aluminium and water/humidity.
Incompatible materials:	Strong oxidising agents.
Hazardous decomposition products:	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
Hazardous Reactions:	Reacts with incompatibles.

11. TOXICOLOGICAL INFORMATION:

Potential Health Effects: This section includes possible adverse effects, which could occur if the product is not handled in the recommended manner.

Eye Contact: Eye contact can cause mechanical irritation. May result in mild abrasion. No toxicity data available for the product. However for constituents: Moderate irritant, (Rat – eye) 100mg/24hr for 100% Iron-EDTA complex [(1)].

Skin Contact: Skin contact may cause mechanical irritation resulting in redness and itching. Not expected to be a skin sensitiser. No Dermal toxicity data available for the product. However for constituents: Moderate irritant (Rat – skin) 500 mg/24hr for 100% Iron-EDTA complex [(1)].

Ingestion: Ingestion of this product may irritate the gastric tract causing nausea and vomiting. No Oral LD_{50} data available for the product. However for constituents: Oral LD_{50} (rats and mice) > 5g/kg for 100% Iron-EDTA complex [(1)].

Inhalation: Inhalation of dusts may irritate the respiratory system. Chronic exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure. Not expected to be a respiratory sensitiser. Not expected to be an aspiration hazard.

Long Term Effects: Not expected to cause toxicity to a specific target organ through single or repeated exposure.
Not considered to be a mutagenic hazard.
Not considered to be toxic to reproduction.
Not considered to be a carcinogenic hazard.

12. ECOLOGICAL INFORMATION:

Ecotoxicity: No ecological toxicity data available for this material.
Toxic to aquatic life.
Prevent this material from entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS:

Disposal methods: Dispose of this product by using in accordance with the product label directions. Do not dispose of this product into waterways, drains and sewers.
Container disposal – Dispose of container in accordance with the product label directions, by wrapping in paper, placing in plastic bag and placing in normal municipal waste disposal.
If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local area regulatory authorities following all applicable regional, national and local laws and regulations. Some local authorities offer hazardous waste collection, contact your local council for details.

14. TRANSPORT INFORMATION:

Not classified as a Dangerous Good for Transport.

15. REGULATORY INFORMATION:

EPA New Zealand Approval Code: HSR000144.

16. OTHER INFORMATION:

Date of preparation of SDS: September 2014.

Abbreviations in SDS:

EPA: The Environmental Protection Authority of New Zealand.
pH: A measurement of how acidic or alkaline a material is using a scale of 1 -14. pH 1 is strongly acidic, pH 14 is strongly alkaline.
LD_{50}: Lethal Dose-50%. The doses of a chemical that will kill 50% of the test animals receiving it.
WES-TWA: Time weighted average work place exposure standard set by EPA or NZ Dept. of Labour Health & Safety.

References:

(1) Efekto Snail-Gone safety data sheet reference to Food and Chemical Toxicology 38 (2000) 99±111; Safety Assessment of Iron EDTA [Sodium Iron (Fe3+) EthylenediaminetetraaceticAcid]: Summary of Toxicological, Forti®cation and Exposure Data.
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